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Single-language runtime systems, in the form of Java virtual machines, are widely deployed platforms for executing untrusted mobile code. These runtimes provide some of the features that operating systems provide: interapplication memory protection and ...

Keywords: Robustness, garbage collection, isolation, language runtimes, resource management, termination, virtual machines

2 [Efficient off-board deployment and customization of virtual machine-based embedded systems](#) [Alexandre Courbot, Gilles Grimaud, Jean-Jacques Vandewalle](#)February 2010 **Transactions on Embedded Computing Systems (TECS)**, Volume 9 Issue 3**Publisher:** ACM [Request Permissions](#)

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This article presents a new way to deploy and customize embedded virtual machine based operating systems for very restrained devices. Due to the specificity of restrained embedded devices (large usage of read-only memory, very few writable memory available, ...

Keywords: Embedded operating systems, Java, deployment, program customization, software analysis

3 [MJ: a rational module system for Java and its applications](#) [John Corwin, David F. Bacon, David Grove, Chet Murthy](#)November 2003 **OOPSLA '03: Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications****Publisher:** ACM [Request Permissions](#)

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While Java provides many software engineering benefits, it lacks a coherent module system and instead provides only packages (which are primarily a name space mechanism) and classloaders (which are very low-level). As a result, large Java applications ...

Keywords: Java, components, language design, modularity

Also published in:

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